

THE UNITED SHAMES OF AMERICA

TO ALL TO WHOM THESE; PRESENTS SHALL COME;

Seed Research of Oregon

JULICIES, THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

REPRODUCED, OR TUBER PROPAGATED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE COMED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COULD WITH AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROPERTY OF THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE TO MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT COTECTION UNDER THE LAW.

HEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) FOR THE TERM OF TWENTY ON THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY ON THE PAYMENT OF THE REQUIRED FEES AND PERIODIC OF THE PAYMENT OF THE REQUIRED FEES AND PERIODIC OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE CONDESSION OF THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR SUCCESSOR OF THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR SUCCESSOR OR USING IT OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE PURPOSES, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT OF THE PLANT VARIETY PROTECTION ACT. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

FESCUE, TALL

'Titan Ltd.'

In Testimone Thereof, I have hereunto set my hand and caused the seal of the Hunt Unriety Frotestion Office to be affixed at the City of Washington, D.C. this twentieth day of September, in the year two thousand and seven.

Attest:

Qe-z-

Commissioner Plant Variety Protection Office Agricultural Marketing Scruice Agriculturo

REPRODUCE LOCALLY. Include form number and date on all n	enroductions		Form Approved - OMB No. 0581-0055
U.S. DEPARTMENT OF AGR AGRICULTURAL MARKETIN SCIENCE AND TECHNOLOGY - PLANT VARIETY PRO APPLICATION FOR PLANT VARIETY PRO (Instructions and information collection burg	CULTURE G SERVICE ETY PROTECTION OFFICE OTECTION CERTIFICATE	the Paperwork Reduction Act (PRA) of 1995	ance with the Privacy Act of 1974 (5 U.S.C. 552a) and f a plant variety protection cartificate is to be issued
1. NAME OF OWNER Seed Research of Ore		2. TEMPORARY DESIGNATION OR EXPERIMENTAL NAME SRX 8M094	3. VARIETY NAME Titan Ltd.
4. ADDRESS (Street and No., or R.F.D. No., City, State, and I	ZIP Code, and Country)	5. TELEPHONE (include area code)	FOR OFFICIAL USE ONLY
27630 Llewellyn Rd.		541-757-2663	PVPO NUMBER
Corvallis, OR 97333		6. FAX (include area code) 541 - 752 - 2065	200300175 FILING DATE
7. IF THE OWNER NAMED IS NOT A "PERSON", GIVE FORE ORGANIZATION (corporation, partnership, association, etc., COrporation		9. DATE OF INCORPORATION 1983	2/26/2003
Dr. Leah A. Brilman Seed Research of Orego	,	t person listed will receive all papers)	F FILING AND EXAMINATION FEES: E \$ 3,652.00 S R DATE 2/26/2003
27630 Llewellyn Rd.			E CERTIFICATION FEE:
Corvallis, OR 97333			E DATE 8/28/2007
11. TELEPHONE (Include area code)	12. FAX (Include area code)	13. E-MAIL	14. CROP KIND (Common Name)
541-758-9115	541-752-2065	srofarm@attglobal	.net Tall fescue
15. GENUS AND SPECIES NAME OF CROP	<u></u>	16. FAMILY NAME (Botanical)	17. IS THE VARIETY A FIRST GENERATION HYBRID?
Festuca arundinacea		Poaceae	LI YES LX NO
18. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT : (Follow instructions on reverse)		• • •	f the Plant Variety Protection Act)
a. Exhibit A. Origin and Breeding History of the Varie	oty	☐ YES (If "yes", enswer items 20 and	
Exhibit B. Statement of Distinctness Exhibit C. Objective Description of Variety		20. DOES THE OWNER SPECIFY THAT SEED VARIETY BE LIMITED AS TO NUMBER OF	
c. Exhibit C. Objective Description of Variety d. Exhibit D. Additional Description of the Variety (O)	Isnoito	IF YES, WHICH CLASSES? FOUND	DATION REGISTERED CERTIFIED
e. 🗹 Exhibit E. Statement of the Basis of the Owner's C	}	21, DOES THE OWNER SPECIFY THAT SEED	
 Voucher Sampie (2,500 yielde untreated seeds or, verification that tissue culture will be deposited and repository) 		VARIETY BE LIMITED AS TO NUMBER OF IF YES, SPECIFY THE NUMBER 1,2,3, etc.	
g. Filing and Examination Fee (\$3,652), made payable States" (Mail to the Plant Variety Protection Office)		FOUNDATION REGISTERED (If additional explanation is necessary, pleas	CERTIFIED e use the space indicated on the reverse.)
22. HAS THE VARIETY (INCLUDING ANY HARVESTED MATE FROM THIS VARIETY BEEN SOLD, DISPOSED OF, TRAN OR		23. IS THE VARIETY OR ANY COMPONENT O PROPERTY RIGHT (PLANT BREEDER'S R.	F THE VARIETY PROTECTED BY INTELLECTUAL IGHT OR PATENT!?
OTHER COUNTRIES? WHYES IF YES, YOU MUST PROVIDE THE DATE OF FIRST SALI USE FOR EACH COUNTRY AND THE CIRCUMSTANCES. (PA		☐ YES IF YES, PLEASE GIVE COUNTRY, DATE OF REFERENCE NUMBER. (Please use space)	
24. The owners declare that a viable sample of basic seed of for a tuber propagated variety a tissue culture will be depo	the variety has been furnished with applica		fance with such regulations as may be applicable, or
The undersigned owner(s) is(are) the owner of this sexual and is entitled to protection under the provisions of Section		riety, and believe(s) that the variety is new, distinct	, uniform, and stable as required in Section 42,
Owner(s) is(are) informed that false representation herein	can jeopardize protection and result in per	alties.	
Signiffere of owner & Bulman		SIGNATURE OF OWNER	
1 10			

SIGNATURE of OWNER

SIGNATURE OF OWNER

SIGNATURE OF OWNER

SIGNATURE OF OWNER

NAME (Please print or type)

Leah A. Brilman

CAPACITY OR TITLE

Research Director

2-25-03

ST-470 (02-10-2003) designed by the Plant Variety Protection Office using Word 2000. Replaces former versions of ST-470, which are obsolete.

(See reverse for instructions and information collection builden statement

GENERAL: To be effectively filed with the Plant Variety Protection Office (PVPO), ALL of the following items must be received in the PVPO: (1) Completed application form signed by the owner; (2) completed exhibits A, B, C, E; (3) for a seed reproduced variety at least 2,500 viable untreated seeds, for a hybrid variety at least 2,500 untreated seeds of each line necessary to reproduce the variety, or for tuber reproduced varieties verification that a viable (in the sense that it will reproduce an entire plant) tissue culture will be deposited and maintained in an approved public repository; (4) check drawn on a U.S. bank for \$3,852 (\$432 filing fee and \$3,220 examination fee), payable to "Treasurer of the United States" (See Section 97.6 of the Regulations and Rules of Practice.) Partial applications will be held in the PVPO for not more than 90 days, then returned to the applicant as unfiled. Mail application and other requirements to Plant Variety Protection Office, AMS, USDA, Room 401, NAL Building, 10301 Baltimore Avenue, Beltsville, MD 20705-2351. Retain one copy for your files. All items on the face of the application are self explanatory unless noted below. Corrections on the application form and exhibits must be initiated and dated. DO NOT use masking materials to make corrections. If a certificate is allowed, you will be requested to send a check payable to "Treasurer of the United States" in the amount of \$432 for issuance of the certificate. Certificates will be issued to owner, not licensee or agent.

> **Plant Variety Protection Office** Telephone: (301) 504-5518 FAX: (301) 504-5291

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ITEM

18a. Give:

Homepage: http://www.ams.usda.gov/science/pvpo/pvp.htm

- (1) the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method;
 - (2) the details of subsequent stages of selection and multiplication;
 - (3) evidence of uniformity and stability; and
 - (4) the type and frequency of variants during reproduction and multiplication and state how these variants may be identified
- 18b. Give a summary of the variety's distinctness. Clearly state how this application variety may be distinguished from all other varieties in the same crop. If the new variety is most similar to one variety or a group of related varieties:
 - (1) identify these varieties and state all differences objectively;
 - (2) attach statistical data for characters expressed numerically and demonstrate that these are clear differences; and
 - (3) submit, if helpful, seed and plant specimens or photographs (prints) of seed and plant comparisons which clearly indicate distinctness.
- 18c. Exhibit C forms are available from the PVPO Office for most crops; specify crop kind. Fill in Exhibit C (Objective Description of Variety) form as completely as possible to describe your variety.
- 18d. Optional additional characteristics and/or photographs. Describe any additional characteristics that cannot be accurately conveyed in Exhibit C. Use comparative varieties as is necessary to reveal more accurately the characteristics that are difficult to describe, such as plant habit, plant color, disease
- 18e. Section 52(5) of the Act requires applicants to furnish a statement of the basis of the applicant's ownership. An Exhibit E form is available from the PVPO.
- 19. If "Yes" is specified (seed of this variety be sold by variety name only, as a class of certified seed), the applicant MAY NOT reverse this affirmative decision after the variety has been sold and so labeled, the decision published, or the certificate issued. However, if "No" has been specified, the applicant may change the choice. (See Regulations and Rules of Practice, Section 97.103).
- 22. See Sections 41, 42, and 43 of the Act and Section 97.5 of the regulations for eligibility requirements.
- 23. See Section 55 of the Act for instructions on claiming the benefit of an earlier filing date.
- 21. CONTINUED FROM FRONT (Please provide a statement as to the limitation and sequence of generations that may be certified.)

22. CONTINUED FROM FRONT (Please provide the date of first sale, disposition, transfer, or use for each country and the circumstances, if the variety (including any harvested material) or a hybrid produced from this variety has been sold, disposed of, transferred, or used in the U.S. or other countries.)

August 30, 2002

23. CONTINUED FROM FRONT (Please give the country, date of filing or issuance, and assigned reference number, if the variety or any component of the variety is protected by intellectual property right (Plant Breeder's Right or Patent).)

NOTES: It is the responsibility of the applicant/owner to keep the PVPO informed of any changes of address or change of ownership or assignment or owner's representative during the life of the application/certificate. There is no charge for filing a change of address. The fee for filing a change of ownership or assignment or any modification of owner's name is specified in Section 97.175 of the regulations. (See Section 101 of the Act, and Sections 97.130, 97.131. 97.175(h) of the Regulations and Rules of Practice.)

To avoid conflict with other variety names in use, the applicant must check the appropriate recognized authority. For example, for agricultural and vegetable crops, contact: Seed Branch, AMS, USDA, Room 213, Building 306, Beltsville Agricultural Research Center--East, Beltsville, MD 20705. Telephone: (301) 504-8089. http://www.ams.usda.gov/lsg/seed.htm

According to the Paperwork Reduction Act of 1995, an exempty may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to everage 3.0 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

The I.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, gender, religion, age, disability, sexual orientation, marital or family stetus, political beliefs, parental status, or protected genetic information. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at 202-720-2600 (voice and TDD).

To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326-W, Whitten Building, 14th and Independence Avenue, SW, Washington, DC 20260-9410 or cell 202-720-5964 (voice and TDD). USDA is an equal opportunity provider and employer.

37-470 (02-10-2003) designed by the Part Variety Projection Office with Word 2000. Reclaims former variations of ST-470, which are obsolete.

EXHIBIT A.

ORIGIN AND BREEDING HISTORY OF "Titan Ltd." TALL FESCUE

Titan Ltd.' tall fescue (Festuca arundinacea) (SRX 8MO94) is an advanced generation cultivar selected based on phenotypic characteristics of spaced plants and their progeny, and progeny turf plots. The germplasm used in the development of the variety have a diverse origin. Many were developed by the Vista Research Project of CalWest and Research Seeds and traces back to released varieties and other clones to varieties developed by Seed Research of Oregon. In the spring of 1992 Seed Research of Oregon, Inc. assumed control of the Vista Turf Research Project through an agreement with Research Seeds. Seed Research, then evaluated the program, and integrated portions of the selected material into the breeding program of Seed Research. Whether from the Vista Turf Project or from Seed Research's program all of the clones used in this project underwent an additional cycle of selection for brown patch resistance, stress tolerance and turf guality at Columbia, MO as outlined below.

Initiated in 1988 the Vista project employed a three pronged approach to improving tall fescues. Utilizing released varieties they placed them in spaced plant nurseries in Pratum, OR, Columbia and Mt. Vernon, MO and Woodland, CA. In Pratum, OR the spaced plants were evaluated for disease resistance, growth form and height, color, leaf fineness, and seed yield, with selection of superior plants performed by Dr. Jonathan Reich of CalWest on visits to Oregon. In Woodland, CA Dr. Reich had spaced plants mown and subjected to drought stress, with selection of superior plants based on turf quality and drought stress. The best plants were dug up in the fall and sent to Oregon, for determination of their production characteristics the following year. At Columbia and Mt. Vernon, MO the spaced plants were also mown, inoculated with five virulent strains of brown patch, Rhizoctonia solani, at Columbia or allowed to develop brown patch with natural disease populations at Mt. Vernon. These plants were then evaluated for disease resistance, turf quality, and color by Dr. David Sleper, with the best plants sent to Oregon in the fall as above. The seed harvested from the best plants in Oregon each year were sent to both California and Missouri for establishment of progeny turf plots to enable analysis of turf quality and drought resistance or brown patch resistance respectively. Progeny spaced plants were also used at each location to perform the next cycle of selection. In Oregon crossing blocks were established using plants with similar characteristics and recombination blocks were established where the progeny of the best plants could be evaluated, selected and harvested for the continuation of the cycles.

In 1992 the Research Department of Seed Research of Oregon assumed control of this project. The plots and spaced plants at Woodland, CA were eliminated in the fall of 1991 after moving the most promising plants to Oregon and sending turf data to Oregon. Analysis of turf data from Missouri and California, combined with maturity, plant height, seed yield and stem rust data from Oregon allowed elimination of at least half the plants at

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Pratum, OR. Beginning in the spring of 1992 additional plants were eliminated based on the presence of net blotch and appearance in Oregon. The plants were rouged throughout the summer based on appearance, stem rust incidence, and potential seed yield, combined with summer performance and brown patch resistance in Missouri.

Approximately 174 plants were harvested from this planting in 1992. The plants with the best seed yields were used to establish turf plots at Columbia, MO, Fairwood Sod Farm in Maryland and at Adelphia, NJ in the fall of 1992. In addition, spaced plants from this material and from Seed Research's breeding program were established at Columbia, MO and evaluated as above by Drs. David Sleper, Leah Brilman and Sulieman Bughrara. The best 96 plants were dug up in the fall of 1994 and shipped to Oregon for seed production evaluation.

In 1995 25 clones were selected based on high seed yield, fine texture and darker green color. A new breeder block of 35 progeny from each clones was established in the fall of 1995. The seed from the 25 clones was also used to establish turf plots in Missouri. This block was rouged based on seed yield, reduced stem rust, and fine texture. Additional rows were removed based on turf performance of progeny. New turf plots were established in Virginia and Missouri with seed from these rows.

In the fall of 1997 seed from remaining progeny of nine of these clones, matched for turf performance, heading date, fine leaf texture and high seed yields were established in a new breeder block. Progeny from the seed of one row, S44BE, of the breeder block designated SRX 8430, derived from the variety Grande through the same breeding strategy above through cycles in Missouri and Oregon, was included in this block due to superior turf performance but earlier maturity than the remainder of that block. Thirteen rows of 35 plants each were established and rouged for uniformity in heading and height, reduced stem rust, fine leaf texture, dark green color and high seed yields. Only nine rows had endophyte and contributed both maternally and paternally to the final variety. The rows, number of plants remaining, and the origins of the original clones are as follows.

<u>Clone</u>	<u>Origin</u>	Plant number
P114-5	6220 13-9E (SR 6200, 2 cycles)	20
P118-10	8010 5-6E (Titan 2)	62
P119-15	OR 901 37-24E (Shortstop)	30
S44BE	SRX 8430E (Grande)	35
P115-6	MO 891 67-29E (Titan)	20
P117-8	CA 891 43-38E (Shortstop)	26
P114-10	8010 7-8E (Titan 2)	<u>31</u>
	Total E plants	224
P118-8	OR 901 37-24 NE (Shortstop)	55
P115-16	OR 901 69-34 NE (Shortstop)	33
P117-8	CA 903 29-43 NE (Bonsai)	<u>30</u>
	Totał NE (Pollen only)	118

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The origin lists the original variety the single plant was selected from. This single plant had progeny planted from it and again a single plant was selected from the progeny to become the P number plant. Progeny of these then went through multiple cycles before the final population was established. The progeny of the variety Titan, through Titan 2 and itself, contributed 50 % of the plants that were used for the breeder seed. The 224 plants with endophyte in the above block were harvested for the final breeder seed. The first breeder seed harvest was in 1999.

Titan Ltd. is a stable and uniform variety. A few variants that are taller and with wider leaves than the rest of the variety have been observed in foundation field (less than 1%), but have never been observed in our PVP nurseries of seventy plants established with the same seed so the percentage is less than 1.4%. The first foundation field was established in the fall of 1999 along with turf plots of the final composite and the initial PVP nursery. The same percentage of variants have been found in certified production, although the taller plants were rouged from the foundation field. Three generations of increase are approved.

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EXHIBIT B.

'TITAN LTD. ' TALL FESCUE NOVELTY STATEMENT

'Titan Ltd.' tall fescue most closely resembles Titan and Shortstop but can be distingusihed based on the following:

Titan Ltd. can be distinguished from Titan by the following;

- 1) Titan Ltd has a significantly shorter plant height than Titan (Tables 3 and 4).
- 2) Titan Ltd has significantly narrower flag leaf and subtending leaf widths than Titan (Tables 5 and 6).

Titan Ltd. can be distinguished from Shortstop by the following:

1) Titan Ltd has significantly earlier heading and antheisis dates than Shortstop (Tables 1 and 2).

U.S. DEPARTMENT OF AGRICULTURE PLANT VARIETY PROTECTION OFFICE, AMS, USDA NATIONAL AGRICULTURAL LIBRARY Bldg., Rm. 500 10301 BALTIMORE Blvd. BELTSVILLE, MD 20705

OBJECTIVE DESCRIPTION OF VARIETY TALL & MEADOW FESCUES

(Festuca spp.)

AME OF APPLICANT(S) Seed Research o	of Oregon	TEMPORARY DESIGN SRX 8MO94		ETY NAME Ltd.
DDRESS (Street and No., or R.F.D. No., City, S 7630 Liewellyn Rd. orvallis, OR 97333	tate, and ZIP Code)			OFFICIAL USE ONLY NUMBER
ace the appropriate number that describes the varies 39). Characteristics described, including numerical could be for SPACED PLANTS. Royal Hortical characteristics marked with an asterisk * are characteristics.	l measurements, sho ultural Society or a	ould represent those that my recognized color fa	t are typical for t	the variety. Measured data
1. SPECIES: (With comparison varieties, use varieties, use varieties)	eties within the speci	es of the application vari	ety)	
X = 1 = F. arundinacea (Tall)	Turf Typ	<u>es</u>		
1 = Kentucky 31 2 = Rebel 7 = Shortstop 8 = Silverado		= Bonanza 0 = Mini Mustang	5 = Arid 11 = Crewcut	6 = Rebei II 12 = Bonsai
	Forage Ty	<u>zpes</u>		
20 = Kentucky 31 24 = Kenhy	21 = Martin 25 = AU Triumph	22 = Forager 26 = Fawn	23 = Mozark 27 = Cajun	
2 = F. pratensis (Meadow)				
30 = Admira 31 = Be	eaumont 32 = Com	tessa 33 = Ensign	34 = Trader	
2. CYTOLOGY:				
Chromosome	Number			
ADAPTATION: (0 = Not Tested; 1 = Not Adapt	ed; 2 = Adapted)			
	Northeast	Other (Specify):		
1. MATURITY: (Date First Headed, 10% of Panio	cle Emergence)			
4 Maturity Class 1 = Very early () 6 = Bonanza	2 = AU Triumph 7 = Late (Silverado)	• • •	4 = K31, Kenhy 9 = Very late	5 = Medium (Rebel)
te Headed <u>113.9</u> 2001 data	Location _Corval	is, OR		
Maturity same as	ison Variety			
Days later than				

from crown to top of panicle, if		* INTERNODE LENGTH (First internode subtending	HCM: g the flag leaf) 🔑 🐧 () () () 🐧 🚆 [
112.6 cm Height		44.0 cm Internode len	gth
9.8cm shorter than	<u>Titan</u>	5,0 cm shorter than	_Titan_
Height same as	Comparison Variety	Length same as	_10_ Comparison variety
cm taller than	_	cm longer than	_
* HEIGHT AT EAR EMERGE	NCE CM: (Flag leaf height from cro	own to flag leaf node)	
62.8 cm Height			
6.6 cm shorter than	ı_Titan		
Height same as	_11_ Comparison Variety		
cm tailer than			
6. GROWTH HABIT: (Mature	Plants)		,
T = Prostrate (7 = Semierect (F	•	te () 5 = Hori Mustang)	zontal ()
7. RHIZOMES (Psuedo):			
mm Length	3 1 = Absent () $2 = Rare$	e (Rebel) 3 = Com	nmon ()
8. LEAF BLADE: (Tiller leaves)	turf color)		
7 = Me	ht green () 3 = Med dium dark green () 9 = Ver- rating of comparison variety 10, 5.2	y dark green ()	5 = Green ()
* 1 Anthocyanin:	1 = Absent () 9 = Pres	sent ()	
*_1 Basal Hairs: 1 = Abs	sent () 9 = Present ())	
* <u>5.5</u> Margins:	1 = Smooth ()	5 = Semi-rough ()	9 = Rough ()
*_8_Width Class:	1 = Very coarse () 3 = Coa 7 = Fine () 9 = Very	rse () 5 = Med y Fine ()	ium ()
TILLER LEAF LENGTH CM: (First leaf subtending the flag leaf)	* TILLER LEAF	WIDTH MM:
32.9 cm Tiller Leaf I	Length	<u>6.2</u> mm Tille	r Leaf Width
10.6 cm shorter than	Titan	1.7 mm narro	wer than <u>Titan</u>
Length same as	Comparison Variety	Width same as	
cm longer than		. mm wider t	han

3. LEAF BLADE: (continued)						and a second of the second
?LAG LEAF LENGTH CM:			FLA	G LEAF WIDTH	MM.	00300175
15.5cm Flag Leaf	Length		_4.0	mm Flag Leaf	Width	
cm shorter than			_1.3	mm narrower t	han <u>7</u>	
Length same as	8_	Comparison Variety	Widt	n same as	<u>12</u>	Comparison variety
cm longer than				mm wider than		
9. LEAF SHEATH: (Basal Po	rtion)				<u>.</u>	, , , , , , , , , , , , , , , , , , ,
*_1_ Anthocyanin (see	lling):	1 = Absent (K31)	9 = Present ()		
* 4 Auricle Hairiness:		1 = Absent ()	9 = P	resent ()		
10. PANICLE: (At seed maturi	ty except	where noted.)				
*4.3 Shape: $1 = Na$	urow-tape	ering () $5 = Ov$	/ate (Rebel Jr.)	7 = Oblong ()	9 = Other (specify)
*4.2 Type: $1 = Cc$	mpact (ap	opressed) 5 = Int	termediate ()	7 = Open ()	9 = Other (specify)
*7.1 Orientation:	1 = No	dding ()	9 = Erect ()		
*_1 Branch Pubescence	l = Gla	brous (53%)	9 = Pubescent	(47%)		
*_1 Anther Color (At a	nthesis):	1 = Yellowish Green 4 = Purplish	2 = Green 5 = Reddish	3 = Bluish Gr 6= Other (Spe		(68% 1, 32% 4)
*_1_ Glume Color (At a	anthesis):	1 = Yellowish Green 4 = Purplish	2 = Green 5 = Reddish	3 = Bluish Gr 6= Other (Spe		(63% 1, 29% 2, 8% 5)
* 22.9 cm Panicle L	ength (fro	om base to tip, if nodding,	straighten; after a	nthesis)		
4.2 cm shorter than	_1_					
Length same as	_10_	Comparison Variety				
4.9 cm longer than	12					
11. SEED: (With Lemma & Pe	lea)					
*2208 mg per 1000 see	eds					
703 mg less than	SR 86	<u>300</u>				
Weight same as	<u>Titan</u>	Comparison Variety				
mg more than						
ALEA: (Keels or Margins)	<u>4.6</u> Ha	irs: 1 = Absent () 5 = S1	nort (Missouri 96)	9 = Long ()
EMMA:	<u>1,6</u> Ha	irs: 1 = Absent (Ken	(2.5) 5 = Se	everal ()		9 = Many (Missouri 96)
5.8 mm Lemma Length	(Mature)		1.2 mm Lemn	na width		
0.6 mm shorter than	<u>Titan</u>		0.2 mm narro	wer than SR	<u>8600</u>	
Length same as		Comparison Variety	Width same as		Com	parison variety
. mm longer than		- -	0.2 mm wider	than Tita r		-

0. PAN	ICLE: (continue	ed)								
	*AWNS:	<u>9</u> AWN	S:	1 = Absent	()	9 = Present (Fa	lcon)	100% Plants w	rith awns	
	1.0 mm Awn le	ength (Of t	hose pre	sent.)						
	mm Shor	ter than								
	Length same as		<u>Titan</u>	Comparison	Vari	iety				
	mm Long	er than								
2. DISI	EASE, INSECT,	AND NE	MATOL	DE REACTION	DN: (0= Not Tested	l= Least	Resistant 9= Mos	t Resistant)	
	Melting-out	t Drechslei	ra poae			B1	ind Seed	. Gloeotinia te m ule	nla	
	3.3 Leaf Spot <i>I</i>	D. siccans				Do	ollar Spo	t <i>Lanzia, Mollerdi</i> :	scus spp.	
	Net Blotch	D. dictyoid	des			St	em Rust	Puccinia graminis		
	4.8 Brown Pate	ch <i>Rhizoct</i> e	onia sola	uni		T.	Blight 7	Typhula incarnata		
	C. Leaf Spo	t Cercospe	ora fectu	cae		Py	thium B	light <i>Pythium</i> spp.		
	Pink Snow	Mold Ger	lachia ni	ivalis		Po	wdery M	fildew <i>Erysiphe gro</i>	aminis	
	Silver Top	F. tricinct	um, F. re	oseum		Cr	own Rus	st Puccinia coronal	'a	
•	Other Disea	se					 			
	Other Insect	: <u></u>								
	Other Nema	tode								
3. EN	VIRONMENTA	L STRES	S		•					•
	Drought Str	ess	1 = Susc	ceptible ()	5 = Tolerant ()	9 = Resistant ()	
-	Shade Stress	s	1 = Susc	ceptible ()	5 = Tolerant ()	9 = Resistant ()	
-	Winter Stres	ss	1 = Susc	ceptible ())	5 = Tolerant ()	9 = Resistant ()	
	VARIETY OR						E THE	APPLICATION V	ARIETY. For the fo	ollowing
						•	than he	tter, greater, darke	r etc	
naracter	·····	Varieties	•	Rating		Charact		Varieties	Rating	
af Wid	th	Titan		3		Leaf Co	olor	Titan	3	
nicle C	olor	Titan	(Red)	1		Panicle	Shape	Titan (Oblong)	1	
ed Size	;	Titan		2		Cold In	jury			
inter C	olor	Titan		2		Heat				
casca										

^{15.} EXPERIMENTAL: Give a brief summary of the experimental design utilized to collect the data used on this form. Cultural conditions, mber of plants measured and plant spacing must be specified. Spaced plants, 3 ft. spacing. 2 replications. Randomized complete block. Tilt

EXHIBIT D. ADDITIONAL DESCRIPTION OF THE VARIETY

Table 1. Heading and anthesis dates for tall fescue varieties in 2000. The plants were established in the fall of 1999 with the seed of control varieties obtained from the repository at the Plant Material Center at Pullman, WA or from the breeder. Two replications of 35 plants were established and the number of plants with at least three heads are as shown. Two applications of TILT were applied to the PVP block to control stem rust. Means followed by the same letter are not significantly different at the 0.05 level.

Variety	Plant Heading Date Number Mean		e Anthesis Date <u>Mean</u>
KY-31 NE	68	110.0 a	145.2 ab
KY-31 E	68	110.9 a	146.3 bc
Rendition	70	111.4 a	144.2 a
Titan	69	114.2 b	147.6 c
SR 8600	69	116.1 bc	149.7 e
Rebel II	69	116.8 c	148.9 de
Titan Ltd.	70	117.0 c	147.0 с
MiniMustang	68	117.3 cd	151.1 f
Crewcut	67	119.5 de	152.0 fg
Silverado	69	120.0 ef	152.9 g
Grande	68	120.5 ef	152.3 fg
SR 8500	70	120.6 ef	151.7 fg
Rebel Jr.	69	120.6 ef	152.5 fg
Shortstop	67	121.5 efg	; 153.1 gh
Bonanza	62	121.7 efg	152.7 g
SR 8210	67	121.7 efg	ı 152.2 fg
Crewcut II	67	121.8 fg	152.6 g
SR 8200	70	123.0 g	g 152.9 gh
Bonsai	66	123.3 g	g 154.3 h
LSD @5%		2.3	1.4

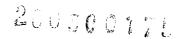


Table 2. Heading and anthesis dates for tall fescue varieties in 2001. The plants were established in the fall of 1999 with the seed of control varieties obtained from the repository at the Plant Material Center at Pullman, WA or from the breeder. Two replications of 35 plants were established and the number of plants with at least three heads are as shown. These are the same plants used for data collection in 2000. Two applications of TILT were applied to the PVP block to control stem rust. Means followed by the same letter are not significantly different at the 0.05 level.

Variety	Plant Number	Heading Date Mean	Anthesis Date Mean
KY-31 NE	64	111.6 a	148.8 ab
KY-31 E	69	113.3 ab	149.6 bc
Titan Ltd.	70	113.9 b	147.3 a
Titan	66	116.4 c	149.1 bc
Rebel II	69	116.9 c	150.2 bcd
SR 8600	66	117.1 c	148.9 abc
Rendition	69	117.8 c	150.5 cde
SR 8210	67	120.2 d	152.1 ef
Silverado	69	120.3 d	151.9 def
SR 8500	68	120.4 d	151.7 fg
Crewcut II	66	120.7 de	153.0 fgh
Shortstop	69	121.1 def	153.9 ghij
MiniMustang	6 5	121.3 def	153.1 fgh
Crewcut	66	122.5 efg	152.5 fg
SR 8200	64	122.7 fg	154.7 hij
Rebel Jr.	69	123.5 gh	155.5 j
Bonanza	62	123.6 gh	152.9 fg
Bonsai	63	123.8 gh	153.4 fghi
Grande	68	124.9 h	155.1 ij
LSD @5%		1.9	1.7

Table 3. Comparative plant morphological measurements of tall fescule varieties in a spaced plant nursery in 2000 near Corvallis, OR. The plants are those described in Table 1. Randomly selected reproductive tillers were selected after anthesis for measurement, with 60 measurements for each characteristic, 30 per rep. Panicle length in this table is that measured in the field on the same tillers used for plant height.

Variety	Plant <u>Height (cm)</u>	Panicle Branch Internode Length (cm)	Height at Ear Emergence (cm)	Plant Width (cm)	Panicle Length (cm)
Bonsai	104.30	23.52	57.83	31.35	20.58
Crewcut:II	106.82	21.68	62.43	29.29	23.50
Silverado	109.72	23.45	63.78	31.70	24.57
SR 8500	112.42	22.74	65.64	29.90	25.23
Rendition	114.40	25.97	63.95	34.77	22.47
MiniMustang	115.34	23.91	65.85	35.23	25.85
SR 8600	118.11	25.01	63.80	29.13	26.34
Grande	120.34	26.24	69.77	35.27	28.09
Rebel Jr.	122.22	26.34	70.03	31.68	28.22
Crewcut	122.59	25.63	71.00	36.38	27.75
Shortstop	122.63	24.45	71.36	33.83	26.98
Titan Ltd.	123.22	24.82	72.66	32.74	24.76
SR 8200	126.18	25.97	73.81	33.23	28.91
SR 8210	128.59	27.34	78.06	32.65	28.15
Bonanza	132.91	28.35	79.18	34.59	32.89
Rebel II	135.90	27.95	82.05	37.58	31.24
Titan	136.86	26.97	81.91	32.35	30.81
Kentucky 31 NE	149.21	28.79	90.13	40.08	33.37
Kentucky 31 E	149.63	27.82	92.40	36.98	35.05
LSD @5%	5.11	173	4.48	2.45	2.02

Height at ear emergence = flag leaf height

Table 4. Comparative plant morphological measurements of tall fescue varieties in a spaced plant nursery in 2001 near Corvallis, OR. The plants are those described in Table 2. Randomly selected reproductive tillers were selected after anthesis for measurement, with 60 measurements for each characteristic, 30 per rep. Panicle length in this table is that measured in the field on the same tillers used for plant height. These are the same plants used in 2000 but not as many experimental varieties were measured in 2001.

Variety	Plant Height (cm)	Panicle Branch Internode Length (cm)	Height at Ear Emergence (cm)	Plant Width (cm)	Panicle <u>Length (cm)</u>
Rendition	95.00	42.10	47.14	48.51	18.29
Silverado	104.33	40.63	52.86	44.49	20.80
Bonsai	106.74	41.87	56.22	39.44	18.04
SR 8600	108.41	39.75	54.54	44.06	23.87
Titan Ltd.	112.59	44.03	62.78	48.19	22.90
MiniMustang	116.29	45.73	56.70	40.86	22.59
Rebel Jr.	117.09	44.00	56.59	42.05	21.69
Shortstop	117.68	43.32	52.86	44.37	26.02
Titan .	122.88	48.96	69.39	43.43	24.44
Crewcut	124.35	45.92	63.87	45.01	25.63
Kentucky 31 E	144.47	56.06	76.94	43.62	27.10
LSD @5%	5.15	4.33	5.27	3.40	3.40

Height at ear emergence = flag leaf height

Table 5. Leaf characteristics of tall fescue varieties in 2000 near Corvallis, OR. The plants are those described in Tables 1 and 3. The leaves were measured on the reproductive tillers utilized in Table 3. The vegetative leaf was measured as the last fully expanded leaf on vegetative tillers on the same plants as described in Table 1 and 2.

	Flag Leaf		Subten	ding Leaf	Vegetative Tiller Leaf	
Variety	Length (cm)	Width (mm)	Length (cm)	Width (mm)	Length (cm)	Width (mm)
Bonsai	10.74	4.41	16.86	6.06	30.46	6.28
SR 8600	12.54	5.50	20.91	6.64	39.40	6.60
Crewcut II	12.68	4.68	20.02	5.88	33.53	5.64
Crewcut	13.34	5.79	22.36	6.91	42.23	6.65
SR 8500	13.59	4.89	21.31	6.10	35.24	6.49
Silverado	13.87	5.16	22.16	6.51	40.74	6.42
MiniMustang	13.90	4.56	21.97	6.09	41.34	5.92
Titan Ltd.	14.16	4.84	23.41	5.85	40.53	6.09
Rebel Jr.	14.72	5.99	23.66	7.16	42.45	6.28
Titan	14.88	5.68	25.78	7.18	48.58	6.87
Shortstop	14.98	5.55	22.99	6.66	38.06	6.34
Rendition	15.15	5.42	23.61	5.88	35.82	6.25
Grande	15.20	6.01	22.92	7.28	40.82	6.33
SR 8210	15.56	5.55	27.09	6.94	50.90	6.98
SR 8200	15.78	6.26	26.59	7.55	48.78	6.75
Kentucky 31 NE	16.24	6.19	28.00	8.28	54.70	8.93
Kentucky 31 E	16. <i>2</i> 9	6.81	28.29	9.07	53.92	8.24
Rebel II	17.39	6.13	29.10	7.34	41.21	7.16
Bonanza	17.85	6.61	28.82	8.01	49.21	7.71
LSD@5%	1.86	0.55	2.01	0.54	4.43	0.54

Table 6. Leaf characteristics of tall fescue varieties in 2001 near Corvallis, OR. The plants are those described in Tables 1 and 3. The leaves were measured on the reproductive tillers utilized in Table 4. The vegetative leaf was measured as the last fully expanded leaf on vegetative tillers on the same plants as described in Table 1 and 2. Less varieties and experimentals were measured in 2001.

	Flag	Flag Leaf		Subtending Leaf		Vegetative Tiller Leaf	
Variety	Length (cm)	Width (mm)	Length (cm)	Width (mm)	Length (cm)	Width (mm)	
Rendition	14.05	3.95	19.56	4.83	26.47	6.36	
Bonsai	14.48	3.95	19.23	4.60	30.52	6.46	
Γitan Ltd.	15.46	4.03	25.32	5.39	32.94	6.18	
Silverado	16.59	4.84	24.84	5.23	38.08	6.05	
litan 💮	16.72	5.69	24.77	6.88	43.47	7.83	
Crewcut	16.73	4.90	25.54	5.71	42.01	6.36	
(entucky 31 E	17.20	6.12	24.74	7.36	49.28	8.10	
Shortstop	17.54	5.32	22.75	5.99	40.07	6.41	
MiniMustang	17.60	5.05	21.47	5.71	36.62	6.41	
SR 8600	17.93	5.62	22.52	5.74	33.85	6.03	
Rebel Jr.	18.28	5.58	22.84	5.83	39.89	6.44	
LSD@5%	2.30	0.55	2.58	0.59	3.32	0.54	

1999 Rutgers Tall Fescue Trial -2000, 2001 Data 100 varieties standard trial, SRO Replicated portion 10 additional Standard varieties plus top and bottom shown

<u>Variety</u>	2000-2001	2000 Ouality Avg	2001 Quality Avg	Brown Patch Aug. 2001
_				_
Signia	6.1	6.3	5.9	7.0
SRX 8BE4	5.7	5.9	5.5	7.0
Arabia	5.2	5.4	5.0	3.7
Plantation	5.1	5.0	5.1	5.0
Rendition	4.9	4.9	4.9	5.3
Crewcut II	4.6	4.7	4.4	5.7
Titan Ltd.	4.4	4.4	4.4	5.7
Coronado	4.4	4.7	4.0	3.7
Pixie	4.4	4.7	4.0	6.0
Shortstop II	3.9	3.9	3.9	3.7
Kentucky 31	1.2	1.2	1.1	4.0
LSD @ 5%	0.8	0.9	0.8	2.3

Table **\$**. Performance of tall fescue cultivars and selections in a turf trial seeded in August 2000 at Adelphia, NJ.

	Cultivar or Selection	Turf Quality¹ 2001 Avg.	Seedling Height ² Sept. 2000	Establishment³ Sept. 2000	Leaf Spot ⁴ Nov. 2000	Brown Patch ⁵ 2001 Avg.
	DOI -					
1	DOL comp	6.8	8.3	7.0	6.3	7.2
2	SBM comp	6.5	7.3	7.3	5.7	6.3
3	RB3 comp	6.4	7.3	6.3	6.0	5.7
4	OD3 comp	6.2	6.3	6.3	5.7	7.3
5	10,001 comp	6.2	6.7	6.7	5.7	6.7
6	OD4 comp	6.1	7.7	6.3	5.0	7.2
7	P58	6.1	6.7	7.3	7.3	6.5
8	TF-33	6.1	7.3	6.3	5.7	5.7
9	TF-34	6.1	7.3	6.7	6.3	4.5
10	2nd Millennium	6.1	7.0	6.0	5.3	7.2
11	Syn 578	6.1	5.3	6.3	5.3	7.0
12	Forte	6.1	6.7	6.3	6.0	6.8
13	TF-35	6.1	7.7	6.0	6.0	6.8
14	Justice	6.0	7.0	6.3	4.0	7.5
15	EA 171	6.0	7.7	5.7	4.3	5.3
16	OD1 comp	6.0	6.7	6.7	5.3	6.7
17	OD2 comp	5.9	6.0	6.0	4.7	7.3
18	00 GFA	5.9	5.7	6.0	5.3	6.5
19	Syn 5K1	5.9	6.3	6.0	6.0	6.3
20	SR 8600	5.9	5.0	6.7	6.3	5.7
21	Bingo	5.9	6.7	6.7	4.7	5.0
22	Biltmore	5.8	6.7	5.3	5.3	5.7
23	Syn 5T2	5.8	6.3	6.0	4.7	5.7
24	Syn 5BAB	5.7	6.3	6.3	5.3	6.8
25	00-BFA	5.7	6.0	7.0	4.7	5.2
26	Matador	5.6	8.0	5.7	6.3	4.7
27	Syn 5KU	5.6	⁷ .7.7	6.3	5.3	6.2
28	BE 4	5.6	8.0	6.3	4.7	5.7
29	Mustang III	5.6	6.0	6.3	5.0	5.7
30	Rendition	5.6	6.7	6.7	5.7	5.8
31	00-H FA	5.6	6.3	6.0	5.0	5.8
32	Syn 5DWF	5.6	7.7	6.7	6.0	5.7
33	E-97	5.6	8.3	6.7	4.0	5.0
34	FA6-91	5.5	6.7	5.7	5.0	5.8
35	Syn-R54M-00	5.5	8.3	6.3	5.3	3.3

(Continued)

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Table **B** (continued).

36 Syn 5NAS 5.5 6.7 6.3 5.7 5.3 37 SRX 8DDMPP 5.4 6.7 5.7 4.7 6.3 38 MA 176 5.4 6.3 5.7 3.7 6.2 39 Syn 5BEH 5.4 6.3 5.7 5.3 6.0 40 Syn 5BZ 5.4 6.0 5.3 5.0 6.0 41 Southern Comfort 5.4 6.7 6.0 5.0 5.0 42 DLSD 5.4 6.0 6.0 6.0 6.0 5.0 43 Syn 5MP 5.4 7.0 6.7 5.7 4.7 45 TF H-97 5.4 7.0 6.3 5.3 4.2 46 00-J FA 5.4 7.3 6.7 6.3 4.8 47 Picasso 5.4 7.0 6.0 5.3 3.8 48 EA 180 5.3 7.7 6.0 6.3 5.0 </th <th></th> <th>Cultivar or Selection</th> <th>Turf Quality¹ 2001 Avg.</th> <th>Seedling Height² Sept. 2000</th> <th>Establishment³ Sept. 2000</th> <th>Leaf Spot⁴ Nov. 2000</th> <th>Brown Patch^s 2001 Avg.</th>		Cultivar or Selection	Turf Quality¹ 2001 Avg.	Seedling Height ² Sept. 2000	Establishment ³ Sept. 2000	Leaf Spot⁴ Nov. 2000	Brown Patch ^s 2001 Avg.
37 SRX 8DDMPP 5.4 6.7 5.7 4.7 6.3 38 MA 176 5.4 7.3 5.7 3.7 6.2 39 Syn 5BEH 5.4 6.3 5.7 5.3 6.0 40 Syn 5BZ 5.4 6.0 5.3 5.0 6.0 41 Southern Comfort 5.4 6.7 6.0 5.0 5.0 42 DLSD 5.4 6.0 6.0 6.0 6.0 5.0 43 Syn 5MP 5.4 7.0 6.7 5.7 4.7 45 TF H-97 5.4 7.0 6.3 5.3 4.8 45 TF H-97 5.4 7.3 6.7 6.3 4.8 45 TF H-97 5.4 7.3 6.7 6.3 4.8 47 Picasso 5.4 7.0 6.0 5.3 3.8 48 EA 180 5.3 7.7 6.0 3.3 5.5 <td>36</td> <td>Syn 5NAS</td> <td>5.5</td> <td>6.7</td> <td>6.3</td> <td>5.7</td> <td>5.3</td>	36	Syn 5NAS	5.5	6.7	6.3	5.7	5.3
39 Syn 5BEH 5.4 6.3 5.7 5.3 6.0 40 Syn 5BZ 5.4 6.0 5.3 5.0 6.0 41 Southern Comfort 5.4 6.0 6.0 6.0 5.0 42 DLSD 5.4 6.0 6.0 6.0 5.0 43 Syn 5MP 5.4 7.0 6.7 5.7 4.7 44 5TE 5.4 6.3 5.7 6.3 4.8 45 TF H-97 5.4 7.0 6.3 5.3 4.2 46 00-J FA 5.4 7.3 6.7 6.3 4.8 47 Picasso 5.4 7.0 6.0 5.3 3.8 48 EA 180 5.3 7.7 6.0 3.3 5.5 49 TF-34 5.3 8.0 6.3 5.0 4.8 50 Syn 5H2 5.3 5.7 5.7 4.7 6.2						4.7	
40 Syn 5BZ 5.4 6.0 5.3 5.0 6.0 41 Southern Comfort 5.4 6.7 6.0 5.0 5.0 42 DLSD 5.4 6.0 6.0 6.0 5.0 43 Syn 5MP 5.4 7.0 6.7 5.7 4.7 44 57E 5.4 6.3 5.7 6.3 4.8 45 TF H-97 5.4 7.0 6.3 5.3 4.2 46 00-J FA 5.4 7.0 6.0 5.3 3.8 48 EA 180 5.3 7.7 6.0 3.3 5.5 49 TF-34 5.3 8.0 6.3 5.0 4.8 50 Syn 5H2 5.3 5.7 5.7 4.7 6.2 51 SRX 8 FFT 5.3 6.7 6.0 4.7 5.5 52 00-CFA 5.3 6.3 6.7 6.3 6.7 4.7 5.5 54 00-A FA 5.3 6.3 6.7 4.7 5.5 55 SRX 8601 E 5.2 5.7 6.0 5.3 6.3 56 Syn 5A3 5.2 6.7 5.7 5.7 5.7 61 Crewcut II 5.2 6.0 6.0 4.7 5.2 58 SRX 8BPDDE 5.2 6.0 6.3 4.7 4.7 59 5301 5.2 6.0 6.0 4.7 5.2 61 Crewcut II 5.2 6.0 5.7 5.7 5.0 4.0 4.8 65 TF J-97 5.1 7.0 6.0 5.3 3.7 66 EA 172 5.1 6.3 5.7 3.0 4.2 66 EA 172 5.1 6.3 5.7 3.0 4.2 67 Laramie 5.1 6.3 5.3 5.3 5.3 5.0 6.8 68 Sun Pro 5.1 6.3 5.3 5.3 5.3 5.0 6.9 68 Sun Pro 5.1 6.3 5.3 5.3 5.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6	38	MA 176	5.4	7.3	5.7	3.7	6.2
41 Southern Comfort 5.4 6.7 6.0 5.0 5.0 42 DLSD 5.4 6.0 6.0 6.0 5.0 43 Syn 5MP 5.4 7.0 6.7 5.7 4.7 44 57E 5.4 6.3 5.7 6.3 4.8 45 TF H-97 5.4 7.0 6.3 5.3 4.2 46 00-J FA 5.4 7.0 6.0 5.3 5.3 4.2 46 00-J FA 5.4 7.0 6.0 5.3 3.8 47 Picasso 5.4 7.0 6.0 5.3 3.8 48 EA 180 5.3 7.7 6.0 3.3 5.5 49 TF-34 5.3 8.0 6.3 5.0 4.8 50 Syn 5H2 5.3 5.7 5.7 4.7 6.2 51 SRX 8 FFT 5.3 6.7 6.0 4.7 5.5 52 00-CFA 5.3 5.3 5.7 5.7 4.7 5.5 54 00-A FA 5.3 6.3 6.7 6.0 4.7 5.5 55 SRX 8601 E 5.2 5.7 6.0 5.3 6.3 56 Syn 5A3 5.2 6.7 5.7 5.7 5.7 Fembrandt 5.2 6.0 6.0 4.7 5.2 58 SRX 8BPDDE 5.2 6.0 6.0 4.7 5.2 58 SRX 8BPDDE 5.2 6.0 6.0 4.7 5.2 59 Santa Fe 5.2 7.0 5.7 5.7 5.0 6.7 61 Crewcut II 5.2 6.0 5.7 5.7 5.0 6.7 62 BE1 5.1 6.3 5.7 5.7 5.0 6.7 63 Plantation 5.1 5.7 5.7 5.0 4.7 66 EA 172 5.1 6.3 5.7 3.7 4.7 68 Sun Pro 5.1 6.3 5.3 5.3 5.3 5.7 69 MA 160 5.1 7.7 5.0 4.0 4.8	39	Syn 5BEH	5.4	6.3	5.7	5.3	6.0
42 DLSD 5.4 6.0 6.0 6.0 5.0 43 Syn 5MP 5.4 7.0 6.7 5.7 4.7 44 57E 5.4 6.3 5.7 6.3 4.8 45 TF H-97 5.4 7.0 6.3 5.3 4.2 46 00-J FA 5.4 7.3 6.7 6.3 4.8 47 Picasso 5.4 7.0 6.0 5.3 3.8 48 EA180 5.3 7.7 6.0 3.3 5.5 49 TF-34 5.3 8.0 6.3 5.0 4.8 50 Syn5H2 5.3 5.7 5.7 4.7 6.2 51 SRX 8 FFT 5.3 6.7 6.0 4.7 5.5 52 00-CFA 5.3 5.3 5.7 3.7 5.2 53 SBE 5.3 6.3 6.7 4.7 5.5 54	40	Syn 5BZ	5.4	6.0	5.3	5.0	6.0
43 Syn 5MP 5.4 7.0 6.7 5.7 4.7 44 57E 5.4 6.3 5.7 6.3 4.8 45 TF H-97 5.4 7.0 6.3 5.3 4.2 46 00-J FA 5.4 7.0 6.0 6.3 3.8 47 Picasso 5.4 7.0 6.0 5.3 3.8 48 EA 180 5.3 7.7 6.0 3.3 5.5 49 TF-34 5.3 8.0 6.3 5.0 4.8 50 Syn 5H2 5.3 5.7 5.7 4.7 6.2 51 SRX 8 FFT 5.3 6.7 6.0 4.7 5.5 50 Ov-GFA 5.3 5.3 5.7 3.7 5.2 53 5BE 5.3 6.3 6.7 4.7 3.8 55 SRX 8601 E 5.2 5.7 6.0 5.3 5.7 58	41	Southern Comfort	5.4	6.7	6.0	5.0	
44 57E 5.4 6.3 5.7 6.3 4.8 45 TF H-97 5.4 7.0 6.3 5.3 4.2 46 00-J FA 5.4 7.0 6.0 5.3 3.8 47 Picasso 5.4 7.0 6.0 5.3 3.8 48 EA 180 5.3 7.7 6.0 3.3 5.5 49 TF-34 5.3 8.0 6.3 5.0 4.8 50 Syn 5H2 5.3 5.7 5.7 4.7 6.2 51 SRX 8 FFT 5.3 6.7 6.0 4.7 5.5 52 00-CFA 5.3 5.3 5.7 3.7 5.2 53 5BE 5.3 6.3 6.7 4.7 5.5 54 00-A FA 5.3 6.3 6.7 4.7 3.8 55 SRX 8601 E 5.2 5.7 6.0 5.3 5.3 56	42	DLSD	5.4				
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46 00-J FA 5.4 7.3 6.7 6.3 4.8 47 Picasso 5.4 7.0 6.0 5.3 3.8 48 EA 180 5.3 7.7 6.0 3.3 5.5 49 TF-34 5.3 8.0 6.3 5.0 4.8 50 Syn 5H2 5.3 5.7 5.7 4.7 6.2 51 SRX 8 FFT 5.3 6.7 6.0 4.7 5.5 52 00-CFA 5.3 6.3 6.3 6.7 4.7 5.5 54 00-A FA 5.3 6.3 6.3 6.7 4.7 5.5 54 00-A FA 5.3 6.3 6.3 6.7 4.7 3.8 55 SRX 8601 E 5.2 5.7 6.0 5.3 6.3 6.3 6.7 4.7 5.2 58 SRX 8BPDDE 5.2 6.0 6.0 4.7 5.2 58 SRX 8BPDDE 5.2 6.0 6.0 4.7 5.2 58 SRX 8BPDDE 5.2 6.0 6.3 4.7 4.7 5.5 6.0 Santa Fe 5.2 7.0 5.7 5.0 6.7 6.7 6.7 6.7 6.7 6.7 6.7 6.7 6.7 5.0 6.7 6.7 6.7 6.7 6.7 6.7 6.7 6.7 6.7 6.7	44	57E	5.4	6.3			
47 Picasso 5.4 7.0 6.0 5.3 3.8 48 EA 180 5.3 7.7 6.0 3.3 5.5 49 TF-34 5.3 8.0 6.3 5.0 4.8 50 Syn 5H2 5.3 5.7 5.7 4.7 6.2 51 SRX 8 FFT 5.3 6.7 6.0 4.7 5.5 52 00-CFA 5.3 5.3 5.7 3.7 5.2 53 5BE 5.3 6.3 6.7 4.7 5.5 54 00-A FA 5.3 6.3 6.7 4.7 3.8 55 SRX 8601 E 5.2 5.7 6.0 5.3 6.3 56 Syn 5A3 5.2 6.7 5.7 5.3 5.7 57 Rembrandt 5.2 6.0 6.0 4.7 4.7 59 5301 5.2 . . . 6.5 60 <td>45</td> <td>TF H-97</td> <td>5.4</td> <td>7.0</td> <td>6.3</td> <td>5.3</td> <td>4.2</td>	45	TF H-97	5.4	7.0	6.3	5.3	4.2
48 EA 180 5.3 7.7 6.0 3.3 5.5 49 TF-34 5.3 8.0 6.3 5.0 4.8 50 Syn 5H2 5.3 5.7 5.7 4.7 6.2 51 SRX 8 FFT 5.3 6.7 6.0 4.7 5.5 52 00-CFA 5.3 5.3 5.7 3.7 5.2 53 5BE 5.3 6.3 6.7 4.7 5.5 54 00-A FA 5.3 6.3 6.7 4.7 3.8 55 SRX 8601 E 5.2 5.7 6.0 5.3 6.3 56 Syn 5A3 5.2 6.7 5.7 5.3 5.7 57 Rembrandt 5.2 6.0 6.0 4.7 5.2 58 SRX 8BPDDE 5.2 6.0 6.3 4.7 4.7 59 5301 5.2 . . . 6.5 60 Santa Fe 5.2 7.0 5.7 2.0 5.0 61 <td>46</td> <td>00-J FA</td> <td>5.4</td> <td>7.3</td> <td></td> <td></td> <td></td>	46	00-J FA	5.4	7.3			
49 TF-34 5.3 8.0 6.3 5.0 4.8 50 Syn 5H2 5.3 5.7 5.7 4.7 6.2 51 SRX 8 FFT 5.3 6.7 6.0 4.7 5.5 52 00-CFA 5.3 5.3 5.7 3.7 5.2 53 5BE 5.3 6.3 6.7 4.7 5.5 54 00-A FA 5.3 6.3 6.7 4.7 3.8 55 SRX 8601 E 5.2 5.7 6.0 5.3 6.3 56 Syn 5A3 5.2 6.7 5.7 5.3 5.7 57 Rembrandt 5.2 6.0 6.0 4.7 5.2 58 SRX 8BPDDE 5.2 6.0 6.3 4.7 4.7 59 5301 5.2 . . . 6.5 60 Santa Fe 5.2 7.0 5.7 5.3 3.7 62 BE1 5.1 6.3 5.7 5.3 3.7 62	47						
50 Syn 5H2 5.3 5.7 5.7 4.7 6.2 51 SRX 8 FFT 5.3 6.7 6.0 4.7 5.5 52 00-CFA 5.3 5.3 5.7 3.7 5.2 53 5BE 5.3 6.3 6.7 4.7 5.5 54 00-A FA 5.3 6.3 6.7 4.7 3.8 55 SRX 8601 E 5.2 5.7 6.0 5.3 6.3 56 Syn 5A3 5.2 6.7 5.7 5.3 5.7 57 Rembrandt 5.2 6.0 6.0 4.7 5.2 58 SRX 8BPDDE 5.2 6.0 6.3 4.7 4.7 59 5301 5.2 . . . 6.5 60 Santa Fe 5.2 7.0 5.7 5.3 3.7 62 BE1 5.1 6.3 5.7 5.0 6.7 63							
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53 5BE 5.3 6.3 6.7 4.7 5.5 54 00-A FA 5.3 6.3 6.7 4.7 3.8 55 SRX 8601 E 5.2 5.7 6.0 5.3 6.3 56 Syn 5A3 5.2 6.7 5.7 5.3 5.7 57 Rembrandt 5.2 6.0 6.0 4.7 5.2 58 SRX 8BPDDE 5.2 6.0 6.3 4.7 4.7 59 5301 5.2 . . . 6.5 60 Santa Fe 5.2 7.0 5.7 2.0 5.0 61 Crewcut II 5.2 6.0 5.7 5.3 3.7 62 BE1 5.1 6.3 5.7 5.0 6.7 63 Plantation 5.1 75.7 6.7 4.7 5.0 64 MA 157 5.1 7.3 5.7 4.0 4.8 65 TF J-97 5.1 6.3 5.7 3.0 4.2 67							
54 00-A FA 5.3 6.3 6.7 4.7 3.8 55 SRX 8601 E 5.2 5.7 6.0 5.3 6.3 56 Syn 5A3 5.2 6.7 5.7 5.3 5.7 57 Rembrandt 5.2 6.0 6.0 4.7 5.2 58 SRX 8BPDDE 5.2 6.0 6.3 4.7 4.7 59 5301 5.2 . . . 6.5 60 Santa Fe 5.2 7.0 5.7 2.0 5.0 61 Crewcut II 5.2 6.0 5.7 5.3 3.7 62 BE1 5.1 6.3 5.7 5.0 6.7 63 Plantation 5.1 75.7 6.7 4.7 5.0 64 MA 157 5.1 7.3 5.7 4.0 4.8 65 TF J-97 5.1 7.0 6.0 4.7 4.5 66 EA 172 5.1 6.3 5.7 3.0 4.2 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>							
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58 SRX 8BPDDE 5.2 6.0 6.3 4.7 4.7 59 5301 5.2 . . . 6.5 60 Santa Fe 5.2 7.0 5.7 2.0 5.0 61 Crewcut II 5.2 6.0 5.7 5.3 3.7 62 BE1 5.1 6.3 5.7 5.0 6.7 63 Plantation 5.1 5.7 6.7 4.7 5.0 64 MA 157 5.1 7.3 5.7 4.0 4.8 65 TF J-97 5.1 7.0 6.0 4.7 4.5 66 EA 172 5.1 6.3 5.7 3.0 4.2 67 Laramie 5.1 6.0 6.0 5.3 3.7 68 Sun Pro 5.1 6.3 5.3 5.3 5.0 69 MA 160 5.1 7.7 5.0 4.0 4.3							
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63 Plantation 5.1 75.7 6.7 4.7 5.0 64 MA 157 5.1 7.3 5.7 4.0 4.8 65 TF J-97 5.1 7.0 6.0 4.7 4.5 66 EA 172 5.1 6.3 5.7 3.0 4.2 67 Laramie 5.1 6.0 6.0 5.3 3.7 68 Sun Pro 5.1 6.3 5.3 5.3 5.0 69 MA 160 5.1 7.7 5.0 4.0 4.3	61	Crewcut II					
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65 TF J-97 5.1 7.0 6.0 4.7 4.5 66 EA 172 5.1 6.3 5.7 3.0 4.2 67 Laramie 5.1 6.0 6.0 5.3 3.7 68 Sun Pro 5.1 6.3 5.3 5.3 5.0 69 MA 160 5.1 7.7 5.0 4.0 4.3	63	Plantation	5.1				
66 EA 172 5.1 6.3 5.7 3.0 4.2 67 Laramie 5.1 6.0 6.0 5.3 3.7 68 Sun Pro 5.1 6.3 5.3 5.3 5.0 69 MA 160 5.1 7.7 5.0 4.0 4.3		MA 157	5.1				
67 Laramie 5.1 6.0 6.0 5.3 3.7 68 Sun Pro 5.1 6.3 5.3 5.3 5.0 69 MA 160 5.1 7.7 5.0 4.0 4.3	65	TF J-97	5.1	7.0	6.0	4.7	4.5
68 Sun Pro 5.1 6.3 5.3 5.0 69 MA 160 5.1 7.7 5.0 4.0 4.3	66	EA 172	5.1	6.3	5.7	3.0	4.2
69 MA 160 5.1 7.7 5.0 4.0 4.3	67	Laramie	5.1	6.0			3.7
	68	Sun Pro	5.1	6.3			
70 Syn-R5JM-00 5.1 7.7 6.3 5.0 2.8							
	70	Syn-R5JM-00	5.1	7.7	6.3	5.0	2.8

(Continued)

	Cultivar or Selection	Turf Quality¹ 2001 Avg.	Seedling Height ² Sept. 2000	Establishment ³ Sept. 2000	Leaf Spot ⁴ Nov. 2000	Brown Patch ⁵ 2001 Avg.
71	CAE comp	5.1	5.7	5.7	4.7	6.5
72	Syn TUO	5.1	6.7	6.7	4.0	5.2
73	Bravo	5.1	4.3	6.3	5.0	4.2
74	EA 155	5.1	6.7	5.7	4.0	4.2
75	MC1	5.0	6.0	5.7	5.0	7.0
76	Syn 5S2	5.0	5.7	5.7	5.7	5.5
77	TF-41	5.0	7.3	6.7	5.0	5.7
78	Syn 5CH	4.9	6.0	5.7	5.0	6.0
79	Pick FA B93	4.9	6.7	5.3	5.0	5.5
80	Syn BRO	4.9	5.3	6.3	4.3	5.3
81	SRX 8DDEOO	4.9	6.3	5.7	4.3	4.2
82	8 S M2	4.9	6.0	5.7	3.3	5.2
83	MA 127 Forbes	4.9	6.7	5.7	2.7	5.2
84	P89 * SpL	4.9	5.3	6.3	5.0	5.2
85	SRX 8 BPDDNE	4.9	5.3	6.3	2.7	5.0
86	ORE-00TF	4.9	4.7	6.0	4.3	4.3
87	Millennium	4.8	5.7	6.3	4.0	5.3
88	EA 163	4.8	6.7	5.3	3.3	4.7
89	Pure Gold	4.8	7.0	6.7	4.3	3.5
90	Syn 5G9	4.8	6.3	5.3	6.0	5.7
91	00-l FA	4.8	6.7	6.0	4.0	4.8
92	00-D FA	4.8	5.0	5.7	4.0	6.3
93	MA 177	4.8	7.7	5.3	3.3	4.7
94	SRX 8EDFF	4.7	4.7	5.3	4.7	4.5
95	Shortstop II	4.7	7.0	5.3	5.3	4.2
96	TF-40	4.7	5.7	6.0	3.3	4.2
97	SRX 8CDEW	4.7	7.0	6.7	3.3	5.0
98	SRX 8MO961	4.7	5.7	6.3	5.0	4.5
99	Prospect	4.6	5.7	6.0	4.3	6.5
00	MA 165	4.6	7.0	5.0	4.0	3.5
01	Apache II	4.6	5.7	6.0	5.0	5.0
02	Coronado Gold	4.6	4.7	6.0	4.7	4.8
03	RT-95	4.6	5.3	6.0	3.3	4.5
04	SR 8500	4.6	5.7	6.0	5.0	5.2
05	GS bulk M2	4.6	6.3	6.3	4.7	3.7

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	Cultivar or Selection	Turf Quality ¹ 2001 Avg.	Seedling Height ² Sept. 2000	Establishment ³ Sept. 2000	Leaf Spot ⁴ Nov. 2000	Brown Patch⁵ 2001 Avg.
106	MA 178	4.6	6.3	5.3	3.0	3.3
107	MA 138 JSC	4.5	6.0	6.3	3.7	5.0
108	8OP22	4.5	7.3	5.7	3.0	4.3
109	8RF2	4.5 ⁻	6.3	6.0	3.0	4.8
110	GS bulk E1	4.5	4.7	6.0	4.0	4.5
111	Coronado	4.5	6.3	6.3	4.7	2.8
112	00-E FA	4.5	5.3	5.3	3.0	5.2
113	Houndog 5	4.5	4.0	5.7	4.0	4.3
114	Olympic Gold	4.5	4.7	6.0	4.7	4.2
115	MA 158	4.4	8.0	4.7	2.7	5.7
116	Rebel Jr.	4.4	3.7	5.7	3.3	4.7
117	Tarheel	4.4	5.0	5.7	3.7	3.5
118	5UD	4.4	6.3	5.7	4.7	4.7
119	Lancer	4.3	5.0	5.3	4.3	4.3
120	Tomahawk E+	4.3	4.0	6.0	4.7	3.8
121	MA 98 Mtn. View	4.3	6.3	6.0	2.0	4.0
122	TF-43	4.2	5.7	5.3	3.0	5.2
123	P89 * SpE	4.2	6.3	6.0	4.3	3.7
124	TF-42	4.2	5.3	5.3	2.3	5.8
125	Talisman	4.2	6.3	6.0	4.7	4.5
126	Syn 5HUO	4.1	5.7	6.7	3.3	5.7
127	Tomahawk	4.1	3.3	5.7	2.7	4.7
128	Crossfire II	4.1	5.7	5.7	4.3	4.5
129	T991-00	4.0	6.7	5.3	4.3	3.5
130	Regiment	4.0	2.7	5.0	4.0	5.2
131	SRX 8 MO94	4.0	4.3	6.3	3.3	4.8
132	Grande	3.9	3.3	6.3	3.0	5.8
133	Crewcut	3.9	<i>,</i> 5.0	5.7	4.7	4.2
134	D5 ATF 00-6	3.9	•	•		6.7
135	SRX WHH	3.8	5.0	5.7	3.7	5.3
136	Bonanza II	3.8	3.7	5.3	2.7	3.7
137	SR 8210	3.8	4.3	6.0	3.3	3.7
138	Wolfpack	3.7	4.7	4.7	3.7	5.7
139	Mustang II	3.7	2.7	5.3	2.7	5.3
140	Hilltop TF	3.6	2.3	5.0	2.3	4.0

Table **3** (continued).

	Cultivar or Selection	Turf Quality ¹ 2001 Avg.	Seedling Height ² Sept. 2000	Establishment ³ Sept. 2000	Leaf Spot ⁴ Nov. 2000	Brown Patch ⁵ 2001 Avg.
41	Eldorado	3.6	2.7	4.3	3.7	5.5
42	Confederate	3.6	5.0	4.3	4.0	5.0
43	GT 2K	3.0	4.3	5.0	1.3	4.5
44	Kentucky 31	1.3	1.0	4.0	1.7	5.2
45	Torpedo	1.0	1.0	3.3	1.0	5.7
	LSD at 5% =	0.7	1.2	1.1	1.2	2.1

^{19 =} best turf quality

^{29 =} shortest seedling height39 = best establishment

^{49 =} least leaf spot

⁵9 = least brown patch (average of two ratings taken 8-13-01 and 8-17-01)

REPRODUCE LOCALLY. Include form number and edition date on all	reproductions. F	ORM APPROVED - OMB No. 0581-0055		
U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE EXHIBIT E STATEMENT OF THE BASIS OF OWNERSHIP	Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). The information is held confidential until the certificate is issued (7 U.S.C. 2426).			
1. NAME OF APPLICANT(S)	2. TEMPORARY DESIGNATION	3. VARIETY NAME		
Seed Research of Oregon	OR EXPERIMENTAL NUMBER SRX 8M094	Titan Ltd.		
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP, and Country)	5. TELEPHONE (Include area code)	6. FAX (include area code)		
27630 Llewellyn Rd.				
Corvallis, OR 97333	541-757-2663 541-752-2065 7. PVPO NUMBER			
,		700076		
8. Does the applicant own all rights to the variety? Mark an "X" in the	e appropriate block. If no, please expla	in. X YES NO		
9. Is the applicant (individual or company) a U.S. national or a U.S. b	pased company? If no, give name of co	ountry. YES NO		
10. Is the applicant the original owner?	NO If no, please answer <u>one</u>	of the following:		
a. If the original rights to variety were owned by individual(s), is (YES	are) the original owner(s) a U.S. Nationa NO If no, give name of countr	• •		
b. If the original rights to variety were owned by a company(ies),	, is (are) the original owner(s) a U.S. bas NO If no, give name of countr			
11. Additional explanation on ownership (Trace ownership from original All breeding work was done by Se or under contract to Seed Resear	ed Research or acq			
PLEASE NOTE:				
Plant variety protection can only be afforded to the owners (not licens	sees) who meet the following criteria:			
If the rights to the variety are owned by the original breeder, that penational of a country which affords similar protection to nationals of the country which affords similar protection to nationals of the country which affords similar protection to nationals of the country which affords similar protection to nationals of the country which affords similar protection to nationals of the country which affords similar protection to nationals of the country which affords similar protection to nationals. Output Description O				
If the rights to the variety are owned by the company which employ nationals of a UPOV member country, or owned by nationals of a c genus and species.				
3. If the applicant is an owner who is not the original owner, both the	original owner and the applicant must m	eet one of the above criteria.		
The original breeder/owner may be the individual or company who direct for definitions.	rected the final breeding. See Section 4	1(a)(2) of the Plant Variety Protection		
According to the Paperwork Reduction Act of 1995, an egency may not conduct or sponsor, control number. The valid OMB control number for this information collection is 0581-0055, including the time for reviewing the instructions, searching existing data sources, gathering a	The time required to complete this information collect	tion is estimated to average 0.1 hour per response,		
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To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326-1720-5954 (voice and TDD). USDA is an equal opportunity provide and employer.	W, Whitten Building, 14th and Independence Avenue,	SW, Washington, D.C. 20250-9410 or call (202)		